

## SEQUENCE LISTING

<110> Nichirei Corporation

<120> Primers and probes for detection of vibrio cholera or vibrio mimicus  
and method of using thereof

<130> PH-1967-PCT

<140>

<141>

<150> JP 2002/362878

<151> 2002-12-13

<160> 6

<170> PatentIn Ver. 2.1

<210> 1

<211> 885

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Consensus sequence of vibrio  
cholera and vibrio mimicus -gyrB

<400> 1

gtm tccggyg gtctrcacgg ggtaggtgtg tcggtrgtka aygcscbtbc wgaaaaagtg 60  
 ctrctbacca tytctgygg yggcaaraty caywscsaaa cttaccatca ygggtgtgcca 120  
 caagcacctg tgkctgtrgt rggtgakacw gagcgtaccg gtactaccgt acgtttcttg 180  
 ccwagygcac aracytttac caatatcgaa ttycattacg acattytggc taaacgyctg 240  
 cgtgagctgt cattcctgaa ytctggcgtg tcgatcaagc tgaysgatga rcgtgaagaa 300  
 gataaraaag accacttyat gtatgaaggk ggtattcaag cgtttgtkac ccacttgaac 360  
 cgyaayaaaa cgccratcca tgaraaagtm ttccacttya accaagagcg tgaagatggc 420  
 atcagcgtgg aagtggcrat gcagtggaay gatggtttcc aagaaaacat ctactgcttt 480  
 acyaacaaca tyccacagcg tgatggyggg acccayttag cyggtttccg tgggtgcrttg 540  
 acccgctactt tgaacaacta yatggayaaa gaaggcttct cgaagaaagc scaagcrgca 600  
 acctcgggtg atgatgcgcg tgaaggctta acrgcdgtkg tdtcggtgaa agtrccrgat 660  
 cctaaattct cragccaaac caaagataag ctrgtttctt cggargtraa atccgcrgtt 720  
 gartcagcya tgaatgagaa gctggcrgat ttcctr gcgg aaaaccaag cgaagcgaaa 780  
 aacgtttgtt cgaagattat tgatgcrgcr cghgckcgtg aagcvgcgcg taaagcmcgk 840  
 gaaatgacyc gycgtaaagg cgcgytrgay ythgcwggyt trcch 885

<210> 2

<211> 822

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Consensus sequence of vibrio cholera and vibrio mimicus -rpoD

<400> 2

acacgtgaag gygaaatcga tattgccaag cgcattgaag atggtattaa ccaagttcaa 60  
 agtgcgattg ctgagtatcc tggaaccatc ccwtayattc ttgaracgtt tgaymrkgtt 120

caggcmgaag arctacgtct sactgayctg atttcwgggtt tcgttgaycc taacgacatg 180  
gaaaccgaag cgccaacygc kactcacatc ggttcwgarc tytctgaagc sgatctcgck 240  
gatgaagatg aygmkgtcgy sgargatgaa gacgargatg aagaygaaga yggcgacggt 300  
gaaagyagcg acagcgaaga agaagtsggt atygaccctg arctsgctcg tgagaaattc 360  
aatgaactgc gcggyaagtt ccaaaacctg caattagcgg ttaatgaatt tggtcgtgac 420  
agtmaycaag cwtctgaagc ktcarrcytr gtrytgata tyttccgyga attccgycta 480  
acaccaaarc aattygacca yttggttgaa actctgcgya cytcratgga tcgtgttcgy 540  
acccaagarc gyttggtrat gaaagcvgtr gttgaagtcg cgaaratgcc raagaaatcr 600  
ttyatygcyc trtttacagg caatgaatcg aatgargart ggctbgataa agtvctygct 660  
tctgayaarc cttaygtasm raaagtmcgt gagcaagaag amgakatycg ccgytcaaty 720  
caraaactdc aratgatcga rcargagacw tcaactgtctg ttgarcgyat caaagacatc 780  
agccgtcgta tgtcwatcgg tgargcraaa gctcgccgtg cg 822

<210> 3

<211> 822

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Consensus sequence vibrio cholera-*gyrB*

<400> 3

acacgtgaag gygaaatcga tattgccaaag cgcattgaag atggtattaa ccaagttcaa 60  
agtgcgattg ctgagtatcc tggaaccatc ccwtayattc ttgarcagtt tgaymrkggt 120  
caggcmgaag arctacgtct sactgayctg atttcwgggtt tcgttgaycc taacgacatg 180  
gaaaccgaag cgccaacygc kactcacatc ggttcwgarc tytctgaagc sgatctcgck 240  
gatgaagatg aygmkgtcgy sgargatgaa gacgargatg aagaygaaga yggcgacggt 300

gaaagyagcg acagcgaaga agaagtsagg atygaccctg arctsgctcg tgagaaattc 360  
 aatgaactgc gcggyaagtt ccaaaacctg caattagcgg ttaatgaatt tggtcgtgac 420  
 agtmaycaag cwtctgaagc ktcarrcytr gtrytgata tyttccgyga attccgycta 480  
 acaccaaarc aattygacca yttggttgaa actctgcgga cytcratgga tcgtgttcgy 540  
 acccaagarc gyttggtrat gaaagcvgr gttgaagtcg cgaaratgcc raagaaatcr 600  
 ttyatygcyc trtttacagg caatgaatcg aatgargart ggctbgataa agtvctygct 660  
 tctgayaarc cttaygtasm raaagtmcgt gagcaagaag amgakatygc ccgytcaaty 720  
 caraaactdc aratgatcga rcargagacw tcactgtctg ttgarctyat caaagacatc 780  
 agccgtcgta tgtcwatcgg tgargcraaa gctcgccgtg cg 822

<210> 4

<211> 822

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Consensus sequence of vibrio cholera -rpoD

<400> 4

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 caggccgaag agctacgtct cactgacctg atttcagggt tcgttgaycc taacgacatg 180  
 gaaaccgaag cgccaaccgc gactcacatc ggttctgagc tttctgaagc ggatctcgcg 240  
 gatgaagatg atgctgtcgt cgaagatgaa gacgaagatg aagacgaaga tggcgacggt 300  
 gaaagcagcg acagcgaaga agaagtcggt atcgaccctg aactggctcg tgagaaattc 360  
 aatgaactgc gcggyaagtt ccaaaacctg caattagcgg ttaatgaatt tggtcgtgac 420  
 agtcatcaag cttctgaagc gtcagactta gtgytgata tcttccgtga attccgycta 480  
 acaccaaagc aattcgacca cttggttgaa actctgcgca cttcaatgga tcgtgttcgc 540

acccaagaac gtttgtrtat gaaagcggta gttgaagtcg cgaagatgcc gaagaaatcg 600  
 ttcacgccc tatttacagg caatgaatcg aatgaagagt ggctggataa agtccttgct 660  
 tctgacaagc cttacgtagc gaaagtccgt gagcaagaag aagagatccg ccgttcaatt 720  
 cagaaactac aaatgatcga gcaagagaca tcactgtctg ttgaacgcat caaagacatc 780  
 agccgtcgta tgtcaatcgg tgaggcraaa gctcgccgtg cg 822

<210> 5

<211> 885

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Consensus sequence of vibrio  
mimicus -gyrB

<400> 5

gtctccggtg gtctacacgg ggtaggtgtg tcggtagtga atgccctgtc agaaaaagtg 60  
 ctgctbacca tttatcgtgg tggcaagatt cacacccaaa cttaccatca cggtgtgcca 120  
 caagcacctg tgtctgtrgt gggtagagact gagcgtaccg gtactaccgt acgtttctgg 180  
 cctagtgcac agactttttac caatatcgaa ttccattacg acattctggc taaacgyctg 240  
 cgtgagctgt cattcctgaa ctctggcgtg tcgatcaagc tgacggatga gcgtgaagaa 300  
 gataagaaag accacttyat gtatgaaggt ggtattcaag cgtttgtkac ccacttgaac 360  
 cgtaayaaaa cgccgatcca tgaaaaagta ttccacttca accaagagcg tgaagatggc 420  
 atcagcgtgg aagtggcaat gcagtggaac gatggtttcc aagaaaacat ctactgcttt 480  
 accaacaaca tyccacagcg tgatggcggg acccacttag cyggtttccg tgggtgcrttg 540  
 acccgtactt tgaacaacta catggacaaa gaaggcttct cgaagaaagc scaagcrgca 600  
 acctcgggtg atgatgcgcg tgaaggctta acrgcrgtkg tkcgggtgaa agtrccrgat 660  
 cctaaattct cragccaaac caaagataag ctrgtttctt cggargtgaa atccgcggtt 720  
 gagtcagcca tgaatgagaa gctggcggat ttctggcggg aaaaccaag cgaagcgaaa 780

aacgtttgtt cgaagattat tgatgcrgrc cghgctcgtg aagcvgcgcg taaagcacgt 840  
gaaatgacyc gtcgtaaagg cgcgctagay ytmgctggtt tgccw 885

<210> 6

<211> 822

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: consensus sequence of vibrio  
mimicus -rpoD

<400> 6

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agtgcgattg ctgagtatcc tggaaccatc ccatacatte ttgaacagtt tgacaaggtt 120  
caggcagaag aactacgtct gactgayctg atttctggtt tcgttgatcc taacgacatg 180  
gaaaccgaag cgccaactgc tactcacatc gggtcagarc tctctgaagc cgatctcgtc 240  
gatgaagatg acgaggtcgc ggaggatgaa gacgaggatg aagatgaaga cggcgacggt 300  
gaaagyagcg acagcgaaga agaagtgggt attgaccctg agctcgctcg tgagaaattc 360  
aatgaactgc gcggcaagtt ccaaaacctg caattagcgg ttaatgaatt tggtcgtgac 420  
agtaaccaag catctgaagc ttcaagcctg gtactggata tyttccgcga attccgccta 480  
acacccaaaac aatttgacca tttggttgaa actctgcgta cctcgatgga tcgtgttcgt 540  
acccaagagc gyttggtgat gaaagcvgtg gttgaagtcg cgaaaatgcc aaagaaatca 600  
tttattgcyc trtttacagg caatgaatcg aatgargaat ggctygataa agtrctcgtc 660  
tctgataarc cttatgtaca aaaagtacgt gagcaagaag acgatattcg ccgctcaatc 720  
caaaaactkc agatgatcga acargagact tcaactgtctg ttgagcgtat caaagacatc 780  
agccgtcgta tgtctatcgg tgaagcgaaa gctcgccgtg cg 822